

# Simulation Based Acquisition (SBA)

**Steve Olson, Raytheon**

**Chairman, SBA Industry Steering Group (ISG)**

[steve\\_olson@fallschurch.esys.com](mailto:steve_olson@fallschurch.esys.com)

presented to

**Defense Modeling and Simulation Office (DMSO)**

**DMSO Industry Days**

**3 June 1999**

# SBA Industry Steering Group

## AB Technologies

Jona McKee

## A&T Inc

Doug Clark

## Ball Aerospace & Tech.

Vance Saunders

## Boeing

Michael Johnson

Reuben Jones

Jack Shelnut

## CACI

Klaus Dannenberg

## CTC

Frank Cooper

## Draper Lab

Seamus Touhy

## Dynetics

Jeff Fogle

## Innotiv Inc.

Jim Augins

## JTPA

Ted Parker

## Lockheed Martin

Beau Beauregard

Margaret Herald

David Kellogg

## Northrop Grumman

Jack Gaudet

## Optimetrics

Frank Wysocki

## Original Sim, INC.

Carl Byers

## Pacific Sierra

Floyd Adagio

## Pratt & Whitney

Paul Sheridan

## Raytheon

Randy Boys

Steve Olson

## RLEngwall Assoc.

Dick Engwall

## SAIC

Heikki Joonsar

Dave Thomen

## Simulation Strategies Inc

Jim Hollenbach

## SRI International

Greg Wilcox

## TASC

Hal Jones

## Trident Systems

Nick Karangelen

## United Defense

Gordon Sayre

Richard Staiert

## Vanguard Research

Gordon Evans

## Visicom Laboratories

Greg Wilcox

# “3 for 1” Industry Representation

- 1** Acquisition Division of the Modeling & Simulation Industry Steering Group (DMSO, DoD Acquisition Council)
- 2** Modeling and Simulation Committee of the NDIA System Engineering Committee (DTSE&E)
- 3** Modeling and Simulation Committee of the Affordability Task Force (Defense Systems Affordability Council (DSAC))

# SBA “Defined”

- Revolutionary Acquisition Initiative

- Emphasizes Modeling & Simulation as a Primary Tool
- M&S Applied and Sustained Throughout the Life Cycle
- Virtual Life Cycle Product Validation Before Production
- Facilitates Tool Re-use Across Programs & Phases
- Enables Iterative Development and IPPDs

- Major Impact On T&E Culture and Purpose

- Digital Representations are Tested
- Physical Test Articles Are Primarily For Model Verification and Validation

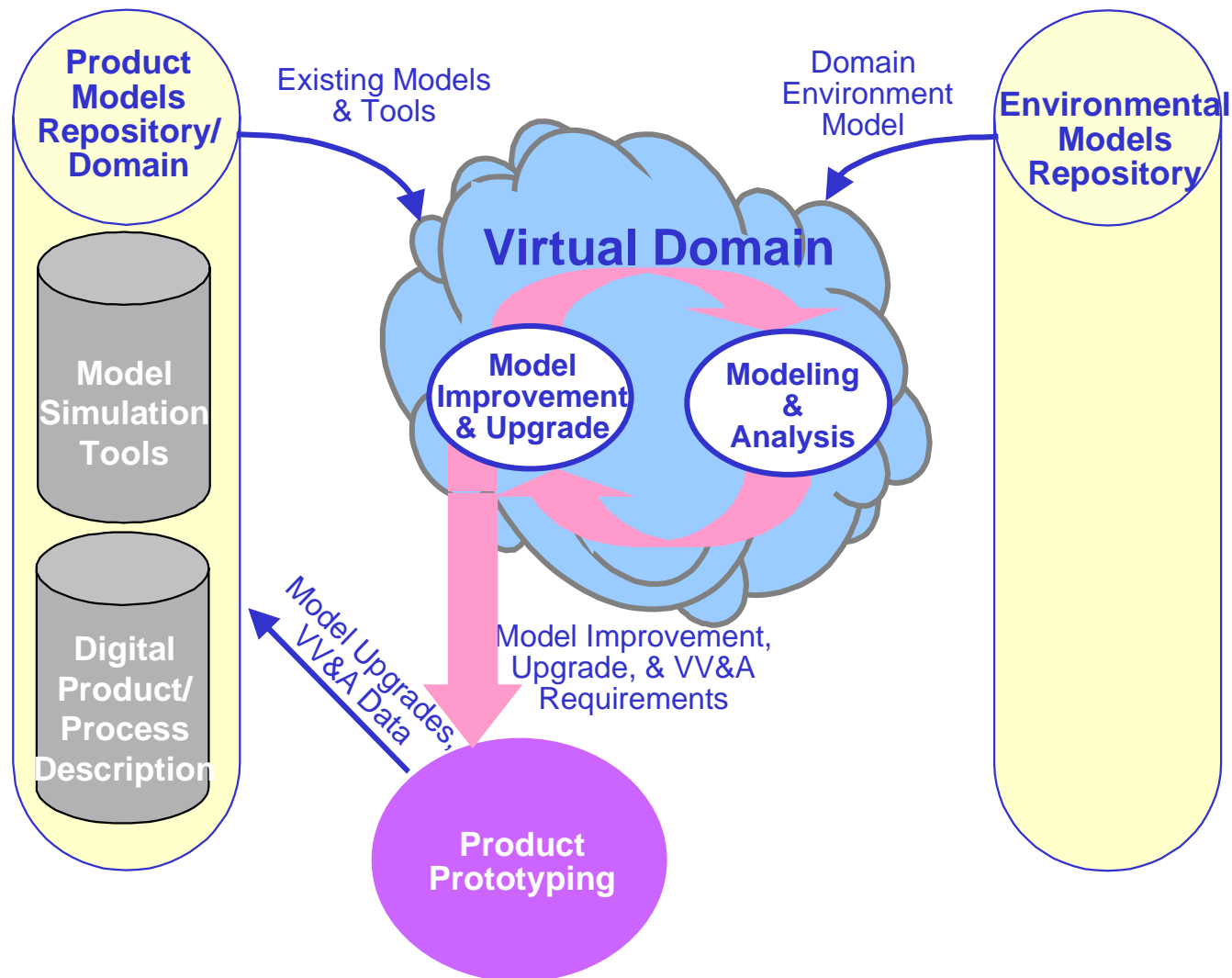
- Major Paradigm Changes in Three Domains

- Culture, Process, Environment

# SBA ISG Accomplishments

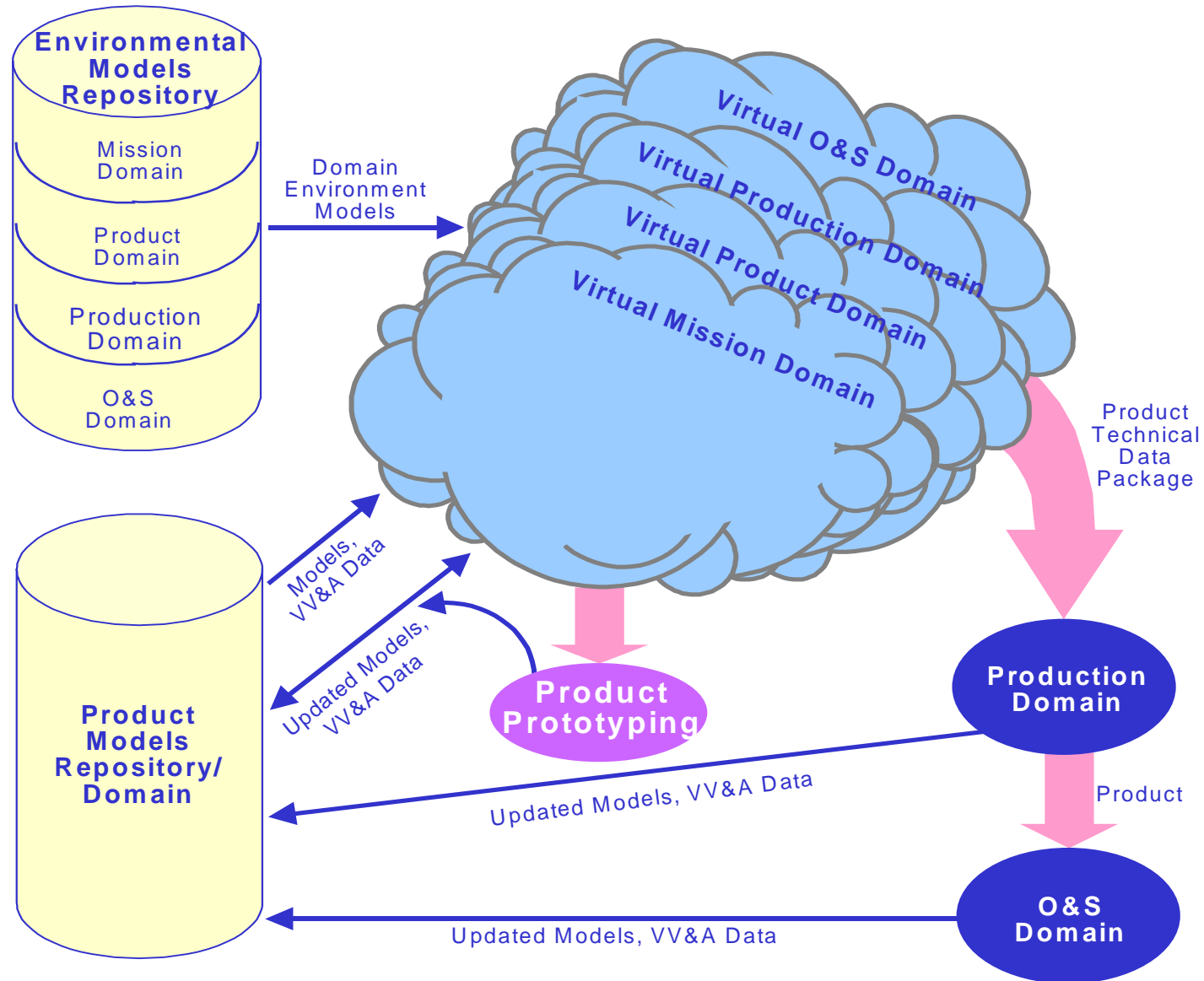
- Hosted 3-day Conference on SBA in Dallas, November '98
- Supported Dod Policy Initiative Requiring Release of M&S Used in Source Selections
- Critiqued the Proposed Roadmap of the SBA Task Force
- Briefed Recommendations to the Acquisition Council and NDIA
- Released the SBA Functional Description Document (FDD), February 1999
- Supported Plans to Form the SBA AD SG
- Initiated Action Supporting the JSF SBA Initiative
- Discussing Plans to Support the Navy's SBA Initiative

# Product Development in the Virtual Domain



Source: SBA Functional Description Document version 1.1, SBA Industry Steering Group, 24 February 1999

# A View of the SBA Process



Source: SBA Functional Description Document version 1.1, SBA Industry Steering Group, 24 February 1999

# SBA ISG 1999 Status & Plans

- ▶ ISG/NDIA Deferred Scheduling a 1999 SBA Conference Pending Resolution of OSD Re-organization and SBA Action Assignments
  - Will Revisit in July
- ▶ Consulting/Advice to the JSF Program Office (Contingent on JSF Funding to Accomplish Necessary Supporting Work Internal to the JSF Program)
  - Digital Product Description Definition/Development
  - Operational Architecture Development
- ▶ Support to the Navy's SBA Initiative
  - Tasks TBD



## SBA ISG Contact Info

- SBA Web Site

<http://www.msosa.dmsso.mil/sba/>

- Steve Olson

[steve\\_olson@fallschurch.esys.com](mailto:steve_olson@fallschurch.esys.com)

- Dave Thomen (reflector)

[thomend@mail.etas.com](mailto:thomend@mail.etas.com)